

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A bucket (1) for crushing and screening stone and similar materials, comprising:

a scoop-shaped body (2) defining an inlet opening (3) for the stone to be crushed and an outlet opening(4) for the crushed stone, between which a direction of flow of the stone is defined;

a mechanism for crushing the stone, the crushing mechanism comprising having a first jaw (5) and a second jaw (6) housed in the scoop-shaped body (2) and movable relative to one another; and

means an element for moving the first jaw (5) relative to the second jaw (6), characterized in that the movement means an element imparting to the first jaw (5) a combined rotational and translational movement relative to the second jaw (6), in which a first component of the movement is away from and towards the second jaw (6) and a second component of the movement is substantially parallel to the direction of flow.

2. (Currently Amended) TheA bucket (1) according to Claim 1, further comprising an means (22) for adjusting changing the size of the cross-section of the outlet opening(4) and the movement of the first jaw (5).

3. (Currently Amended) TheA bucket (1) according to Claim 1 or Claim 2 in which the first jaw (5) and the second jaw (6) each comprises respective first and second opposite ends (7, 8) which are positioned, with reference to the direction of flow, in the region of the inlet opening (3) and in the region of the outlet opening(4), respectively, the movement means element acting on the first end (7) of the first jaw (5).

4. (Currently Amended) TheA bucket (1) according to Claim 3 in which the second end (8) of the first jaw (5) is coupled with the means (22) for adjusting the size of the cross-section of the outlet (4) and the movement of the first jaw (5).

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5. (Currently Amended) TheA bucket (1) according to any one of Claims 3 and 4 in which the element~~movement means~~ comprises at least one eccentric (15, 16) on which a sleeve (19) is coupled in a freely rotatable manner, the sleeve (19) being fixed firmly to the first end (7) of the first jaw (5).

6. (Currently Amended) TheA bucket (1) according to Claim 5 in which the element~~movement means~~ comprises two eccentrics (15, 16) moved by a shaft (14) driven by a drive mechanism(9), the two eccentrics (15, 16) being coupled with two bearings (17, 18) on which the sleeve (19) is fitted.

7. (Currently Amended) TheA bucket (1) according to any one of Claims 3 to 6 in which the adjuster~~adjustment means~~ (22) comprises a strut (23) interposed at an adjustable inclination between the second end (8) of the first jaw (5) and the scoop-shaped body (2).

8. (Currently Amended) TheA bucket (1) according to Claim 7 in which the second end (8) of the first jaw (5) comprises a first channel (25) for housing a first end (24a) of the strut (23) in an orientable manner.

9. (Currently Amended) TheA bucket (1) according to Claim 8 in which further comprising a support (41) is mounted on the scoop-shaped body (2) and houses a set of removable spacers (34), the spacers (34) being interposed between the support (41) and a second channel (33, 33') which houses a second end (24b) of the strut (23).

10. (Currently Amended) TheA bucket (1) according to Claim 9 in which the second end (24b) of the strut (23) is housed in the second channel (33, 33') in alternative operative positions, in order to adjust the inclination between the strut (23) and the first jaw (5), at rest.

11. (Currently Amended) TheA bucket (1) according to one or more of the preceding claims 1 in which each of the first jaw (5) and the second jaw (6) comprises a respective frame (5a, 6a) on which respective plates (5b, 6b) are fitted removably.

12. (Currently Amended) TheA bucket (1) according to Claim 11 in which a plurality of grooves (20) are formed on facing surfaces of the plates (5b, 6b).

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13. (Currently Amended) TheA bucket (1) according to claim 12 in which the grooves (20) are parallel to one another and extend in the direction of the flow of the stone.

14. (Currently Amended) TheA bucket (1) according to claim 13 in which the grooves (20) define a plurality of ribs (20a) and recesses (20b) alternating in succession in a manner such that a rib (20a) of the first jaw (5) corresponds to a recess (20b) of the second jaw (6).

15. (Currently Amended) TheA bucket (1) according to ~~one or more of the preceding claims 1~~ in which the second jaw (6) is fixed firmly to the scoop-shaped body (2).

16. (Currently Amended) TheA bucket (1) according to ~~one or more of c~~laims 7 to 15, further comprising a resilient mechanism (30) suitable for resiliently urging the second end (8) of the first jaw (5) against the strut (23).

17. (Currently Amended) TheA bucket (1) according to claim 16, further comprising means (51) for adjusting the load of the resilient mechanism (30).

18. (Currently Amended) TheA bucket (1) according to ~~one or more of the preceding claims 1~~, further comprising a vibrator means (50) disposed in the region of the inlet opening (3) for bringing about pulsed vibration of the second jaw (6).

19. (New) A bucket for crushing and screening stone and similar materials, comprising:

a scoop-shaped body defining an inlet opening for the stone to be crushed and an outlet opening for the crushed stone, between which a direction of flow of the stone is defined;

a mechanism for crushing the stone, the crushing mechanism having a first jaw and a second jaw housed in the scoop-shaped body and movable relative to one another, the first jaw and the second jaw each having respective first and second opposite ends and the second jaw being fixed firmly to the scoop-shaped body;

an adjuster coupled with the second end of the first jaw, the adjuster changing the size of the cross-section of the outlet opening and the movement of the first jaw and having a strut interposed at an adjustable inclination between the second end of the first jaw and the scoop-shaped body;

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a resilient mechanism resiliently urging the second end of the first jaw against the strut;

means for adjusting the load of the resilient mechanism;

a vibrator disposed in the region of the inlet opening for bringing about pulsed vibration of the second jaw; and

an element for moving the first jaw relative to the second jaw, the element imparting to the first jaw a combined rotational and translational movement relative to the second jaw, in which a first component of the movement is away from and towards the second jaw and a second component of the movement is substantially parallel to the direction of flow;

wherein the respective first and second opposite ends of the first jaw and the second jaw are positioned, with reference to the direction of flow, in the region of the inlet opening and in the region of the outlet opening, respectively, the element acting on the first end of the first jaw.

20. (New) A bucket for crushing and screening stone and similar materials, comprising:

a scoop-shaped body defining an inlet opening for the stone to be crushed and an outlet opening for the crushed stone, between which a direction of flow of the stone is defined;

a mechanism for crushing the stone, the crushing mechanism having a first jaw and a second jaw housed in the scoop-shaped body and movable relative to one another, the first jaw and the second jaw each having a respective frame on which respective plates are fitted removably and each having respective first and second opposite ends, the second jaw being fixed firmly to the scoop-shaped body;

a plurality of grooves formed on facing surfaces of the plates, the grooves paralleling one another, extending in the direction of the flow of the stone, and defining a plurality of ribs and recesses alternating in succession in a manner such that a rib of the first jaw corresponds to a recess of the second jaw;

an adjuster coupled with the second end of the first jaw, the adjuster changing the size of the cross-section of the outlet opening and the movement of the first jaw and having

a strut interposed at an adjustable inclination between the second end of the first jaw and the scoop-shaped body, the strut having a first end and a second end with the first end of the strut being housed in a first channel of the second end of the first jaw in an orientable manner;

a support mounted on the scoop-shaped body and a set of removable spacers interposed between the support and a second channel which houses the second end of the strut, the second end of the strut housed in the second channel in alternative operative positions, in order to adjust the inclination between the strut and the first jaw, at rest;

a resilient mechanism resiliently urging the second end of the first jaw against the strut;

means for adjusting the load of the resilient mechanism;

a vibrator disposed in the region of the inlet opening for bringing about pulsed vibration of the second jaw; and

an element for moving the first jaw relative to the second jaw such that imparted to the first jaw is a combined rotational and translational movement relative to the second jaw, in which a first component of the movement is away from and towards the second jaw and a second component of the movement is substantially parallel to the direction of flow, the element including two eccentrics moved by a shaft driven by a drive mechanism and coupled with two bearings on which a sleeve is fitted, the sleeve coupled to the eccentrics in a freely rotatable manner and fixed firmly to the first end of the first jaw;

wherein the respective first and second opposite ends of the first jaw and the second jaw are positioned, with reference to the direction of flow, in the region of the inlet opening and in the region of the outlet opening, respectively, the element acting on the first end of the first jaw.